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Federal Communications Commission
Office of Engineering and Technology
Policy and Rules Division
Technical Rules Branch

MEMORANDUM

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FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF SECRETARY

Date: 22 June 1995

To: Secretary

DOCKET FILE COPY ORIGINAL

From: Richard B. Engelman
Chief, Technical Rules Branch/OET

Subject: Information to be filed in ET Docket No. 94-124

Attached is information that should be filed in ET Docket No. 94-124:

1) An excerpt of ERC Report 25, published by the European Radiocommunications Committee (ERC) within the European Conference of Postal and Telecommunications Administrations (CEPT), containing the European Table of Frequency Allocations and Utilisations for the frequency bands from 40 GHz to 105 GHz. The complete version of ERC Report 25, covering the frequency bands 960 MHz to 105 GHz, may be obtained from the ERC's permanent European Radiocommunications Office, Holsteinsgade 63, DK-2100 Copenhagen, Denmark (telephone +45 35 43 24 42, fax +45 35 43 35 14).

2) A presentation made by representatives of the Ministry of Posts and Telecommunications of Japan to a meeting of government and industry representatives from the US, Europe, and Japan, in May, 1995.

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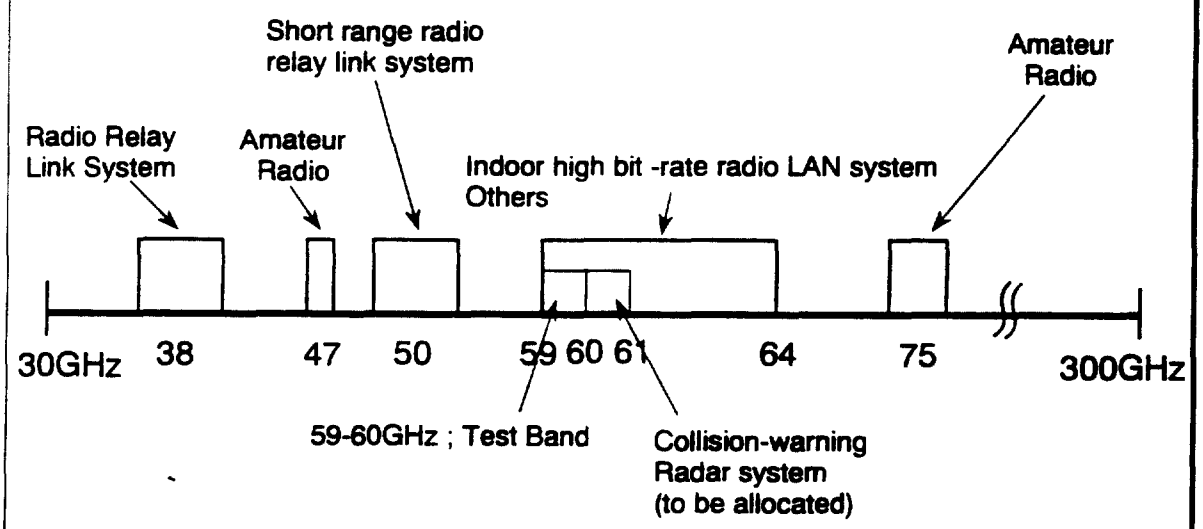
Millimeter wave band related activities

May 1995
MPT, JAPAN

Frequency Allocation in millimeter wave band



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Introduction of Collision-warning Radar System

- Technical requirements for the system using 60GHz decided at the Telecommunications Technology Council in March 1995.
- Now under arrangement of regulation
- Further consideration for the system using other frequency bands.

item	specification
Frequency band	60GHz band (bandwidth 1GHz)
Antenna Power	less than 10mW
Antenna gain	less than 40dB

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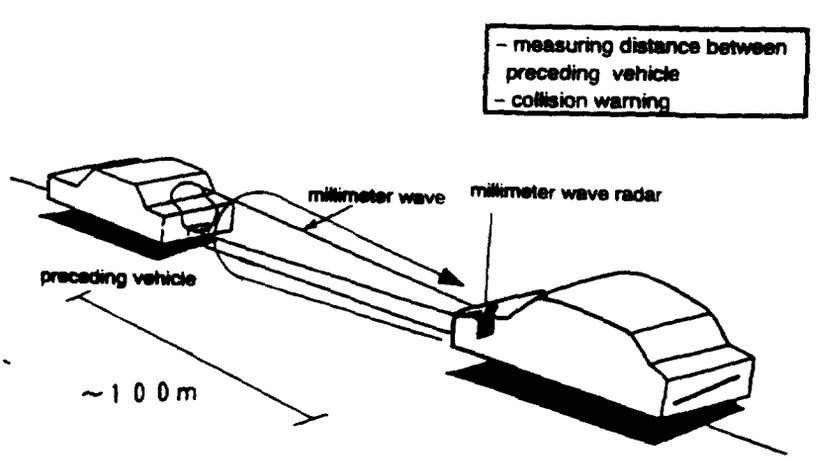
Collision-warning Radar System



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Research & Development activities in CRL

Communications Research Laboratory(CRL) is an institution of MPT.

- Millimeter-Wave Communications Systems in Local Areas

  extensive research on key technology

  - millimeter-wave indoor multi-path propagation characteristics
  - high-speed transmission technology
  - antenna technology

- Millimeter and Submillimeter-Wave Devices and their Applications

  development of

  - thin film technology for MM- and SubMM- wave device
  - new functional devices which operate in MM and SubMM band

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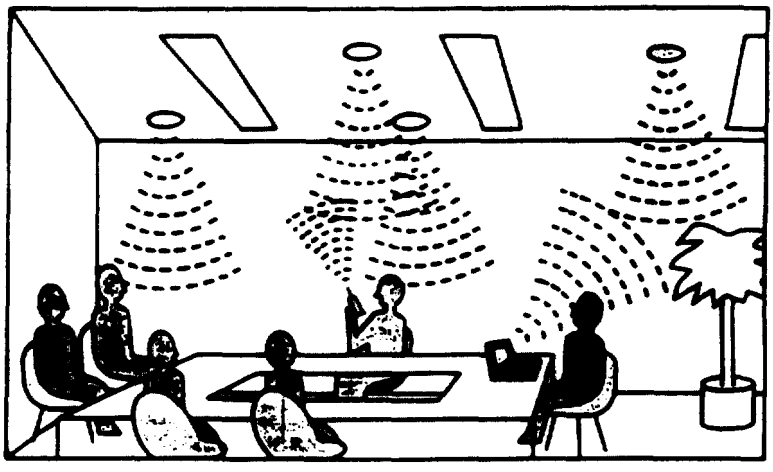
Millimeter Band Wave Local Area Communication System



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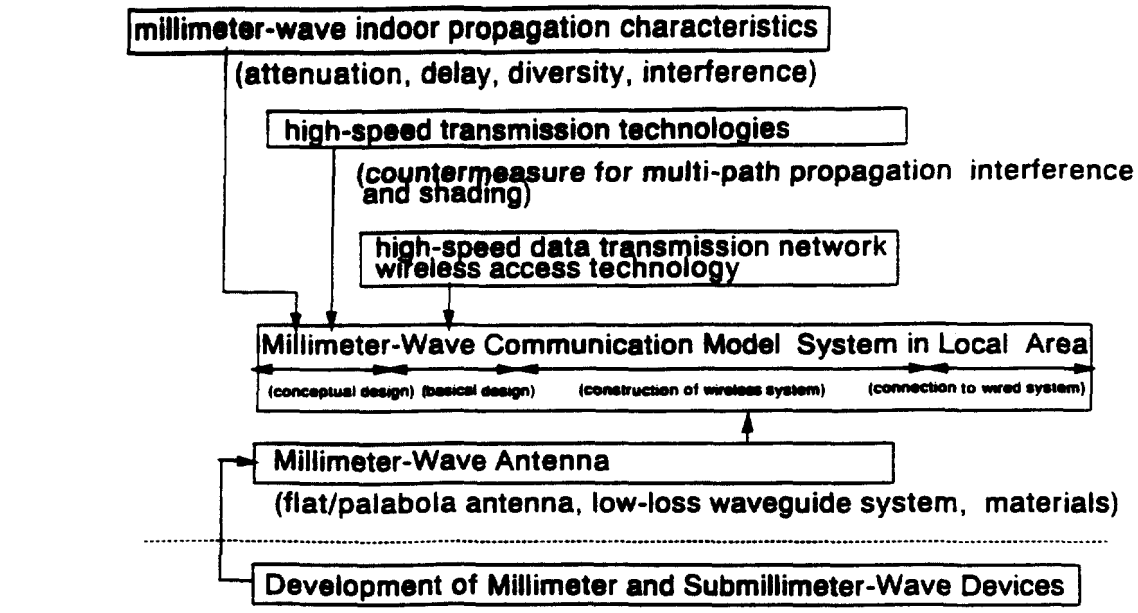

R&D plan for Millimeter-Wave Communications Systems in Local Area in CRL

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Advanced Mobile Satellite Communication Experiment by COMETS

Experiment to encourage R&D
- message and image communication
- multi-beam antenna for Ka and Millimeter Wave band
- Very small portable station with several cm - several 10 cm diameter antenna

COMETS: COMmunication and broadcasting Engineering Test Satellite, a fixed satellite to be launched in FY1996.

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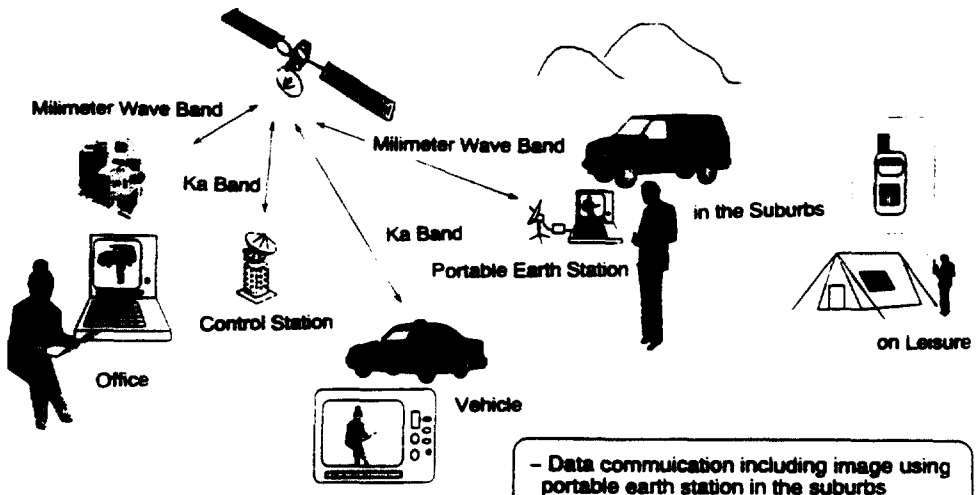
Advanced Mobile Satellite Communication Experiment by COMETS



- Data commuication including image using portable earth station in the suburbs
- Image transmission (ex. video phone) in the moving environment (ex. in the vehicle)

R&D activities in RCR

- Study Group of Collision-Warning Radar System drafted RCR Standard of the System
- Set up a Study Group of High-Speed and Large-Capacity MM-Wave Radio-LAN System in 1994
- Experimental Studies
  1) Propagation experiments
  2) Tests of High-Speed Transmission Technologies
  3) Antenna Technologies
- Drafting RCR Standard

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